

ABSTRACT

A diffraction-grating type sensor chip for analyzing a sample using surface plasmon resonance (SPR), and a method and apparatus for analyzing a sample using the sensor chip. The sensor chip includes a plurality of diffraction grating surfaces (5a-5i) which are disposed in the vicinity of a metal layer (3); the groove pitch and the groove orientation of each diffraction grating surface (5a-5i), in addition to the angle that each diffraction grating surface (5a-5i) forms with a predetermined reference plane (S0), are adjusted in such a manner that when the diffraction grating surfaces (5a-5i) are projected onto a predetermined projection plane, the groove orientations in the projection plane are identical while the groove pitches in the projection plane are different among the diffraction grating surfaces (5a-5i).